ACID NITRIDE PHOSPHOR ACTIVATED WITH RARE EARTH ELEMENT

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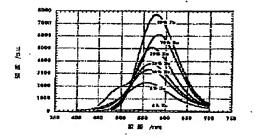
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Abstract of JP2002363554

PROBLEM TO BE SOLVED: To provide an acid nitride phosphor activated with a rare earth element, which can realize a white LED with a higher luminance, using a blue LED as the light source. SOLUTION: This phosphor is represented by the general formula: Mex Si12-(m+n) Al(m+n) On N16-n: Re1y Re2z , wherein a part or the whole of the metal(s) Me (Me is Ca, Mg, Y, or one or more of lanthanide metals except La and Ce) capable of forming a solid solution with α -sialon is substituted by lanthanide metal(s) Re1 (Re1 is one or more of Ce, Pr, Eu, Tb, Yb, and Er) serving as a luminescent center, or two kinds of lanthanide metals Re1 and a coactivator comprising Re2 (Re2 is Dy).



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